



No right way is easy

“NO RIGHT WAY IS EASY IN THIS ROUGH WORLD. WE MUST RISK OUR LIVES TO SAVE THEM.”

Before John Muir wrote those words, before people wrote words, Anishinaabek legend tells of a mother bear and her two cubs escaping an encroaching forest fire by jumping into the big lake we now call Michigan. This teaching is the root of the legend popularly told today. To save their lives, they first had to risk them.

The mama bear risked everything leaving home, leading her two cubs on such a long stormy swim to the safety she hoped to find on the other side. “Don’t lose faith if you lose sight of me over one wave, keep swimming as hard as you can until you find me over the next” she said as she led them into the raging waters.

The first official recommendation to create this National Lakeshore came in 1959 in recognition of the need to save this special place from encroaching threats. The people who wanted to create this National Lakeshore and those who didn’t, entered into their own stormy waters. Fighting through waves of frustration, compromise, and sacrifice, they all swam as hard as they could, hoping to find resolution over the next wave.

Mama bear swam all night long and landed exhausted on the sandy shoreline the next morning. When she didn’t see her cubs, she climbed on top of a tall bluff to watch for them. As she waited, she fell asleep from her exhaustion. Her two cubs never made it to shore, succumbing to their exhaustion in the depths of the great lake.

The Great Spirit saw what happened, and was so moved to raise the two cubs to become North and South Manitou Islands, and the mama bear became Sleeping Bear Dune. Now for eternity they will always be together, home safe at last.

On October 21st, 1970, these legendary lands became Sleeping Bear Dunes National Lakeshore to protect outstanding natural features “to be preserved in their natural setting and protected from developments and uses which would destroy the scenic beauty and natural character of the area.” Mama bear had made it to shore.

Over time, local families’ histories and other cultural sites were recognized as outstanding features worth saving as well, finally re-uniting all of the “family.” The cubs had been raised up, rescued from their potential graves.

Thanks to the many people who sacrificed their lands, homes, and life stories, and the people who fought to preserve them for eternity, like Senator Philip A. Hart, this National Park Service site will now be preserved for us all to enjoy, together, for this and future generations.

The legend may appear to be a story of death or loss, but we hope you also see it as a story of eternal love. Nothing is stronger or lasts longer than the love of family. It is stronger than forest fires, raging waters, death, divorce, or disagreements.

To many, this place represents family. Whether it is the Anishinaabek who originally lived in this place and told the legend, the families who lost their lands for a national park, or new families just starting the tradition of bringing their children to the dunes, our love for family and for this legendary place, will outlast anything that may divide us.

Help us celebrate our 40th anniversary year by coming home to your Sleeping Bear Dunes National Lakeshore. Explore your park, discover its rich history with your own family, and make new legends to share with future generations.



©Mark Lindsay

Photo: Mark Lindsay



©Mark Lindsay

Photo: Mark Lindsay

Saturdays at the Lakeshore

Join a ranger for a different walk, talk or hike every Saturday at 1:00 p.m. To find out what's happening, see page 5 for our summer schedule, ask any ranger, or stop in at a visitor center. You may also visit www.nps.gov/slbe/planyourvisit/events.htm or call 231-326-5134 for details. Reservations are not required, but are suggested if you bring a group or need snowshoes in winter.

What’s Inside

Superintendent's Welcome	2
Park Passes	2
Make the Most of Your Visit.....	3
Park Partners	4
Weather and Climate.....	4
Ranger Programs.....	5
Trail Guide	6
Park Map.....	7
Pets in the Park.....	8
Bear Safety.....	8
Beaches	9
Glen Haven	10
Maritime Museum.....	10
Activities	10
Camping.....	11
Firewood Alert	11
Islands	12
Special Events	12

National Park Service
U.S. Department of the Interior
Sleeping Bear Dunes National Lakeshore
9922 Front Street
Empire, MI 49630



Beaches

9



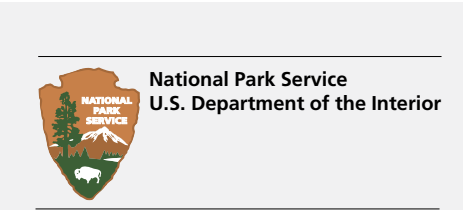
Camping

11



Junior Rangers 12





Sleeping Bear Dunes National Lakeshore

Park Headquarters
9922 Front Street
Empire, MI 49630
Visitor center: 231-326-5134 x328
Website: www.nps.gov/slbe
E-mail: SLBE_interpretation@nps.gov
Fax: 231-326-5382

Authorized by Congress on October 21, 1970, Sleeping Bear Dunes National Lakeshore encompasses a 31-mile stretch of Lake Michigan's eastern shoreline, as well as North and South Manitou Islands. The park was established to preserve the "outstanding natural features, including forests, beaches, dune formations, and ancient glacial phenomena...for the benefit, inspiration, education, recreation, and enjoyment of the public." The Lakeshore also contains many cultural features including an 1871 lighthouse, three former U.S. Life Saving Service / Coast Guard Stations and an extensive rural historic district.

Sleeping Bear Dunes National Lakeshore Visitor Guide is published annually by Sleeping Bear Dunes National Lakeshore, Division of Interpretation & Visitor Services. Contributors include Amanda Brushhaber, Amie Lipscomb, Kerry Kelly, Susan Sanders, Dennis Yockers, Alice Van Zoeren, Nicole Macdonald, Mark Lindsay, and park staff. Funding is donated by Eastern National, a private, non-profit organization which operates the sales outlets at the General Store, Dune Center, and visitor center. A portion of their proceeds is donated to the Lakeshore to support interpretive and educational programs.

The National Park Service cares for the special places saved by the American people so that all may experience our heritage.



Philip Hart Visitor Center



Open year-round. Let park rangers help you plan your visit. Purchase a park pass here. Assistive listening devices available. Exhibits provide information on geology, ecology, and human stories. *Dreams of the Sleeping Bear*, a free 15-minute multimedia program with closed captioning, highlights the Lakeshore's scenery, seasons, and history. Bookstore purchases (books, games, posters, postcards, shirts, hats, patches, and more) support the park.

Memorial Day to Labor Day: 8:00 a.m. - 6:00 p.m.
Labor Day to Memorial Day: 8:30 a.m. - 4:00 p.m.
Closed: Thanksgiving, Christmas, and New Year's Days

Located: M-72 in Empire
Contact: 231-326-5134 x328

Greetings from the Superintendent



Welcome to Sleeping Bear Dunes National Lakeshore!

It is our 40th Anniversary! On October 21, 1970, Congress passed the law creating this national park site. Last October, we began our year-long celebration of that milestone with an evening under the stars. We will continue celebrating through October, 2011 and acknowledging the history of the park while also planning for its future.

In this 2011 Visitor Guide to the Lakeshore, you will find a wealth of information to enhance your park visit, introduce you to some of the projects and research happening throughout these 71,000+ acres of federal lands, and entice you to learn more about

how you can join us in preserving and protecting the amazing resources of the Lakeshore. First-time visitors may find that there are so many experiences to choose from that they will want to return, and repeat visitors will likely be inspired to experience something new and different.

I am excited for you to benefit from the fruits of our recent labors. Venture out to the Historic Village of Glen Haven where the Cannery has been reopened after getting a brand new foundation, a fresh paint job, and a new entrance plaza. In our efforts to protect the dunes and concentrate cars and people, we constructed a new parking lot and an elevated walkway for views of the Manitou Passage as well as the fish tug *Aloha*, and replaced the non-native dune grass with native species. Please help us protect the dunes by using the newly established walkways to the beach to eliminate multiple footpaths.

Also in Glen Haven, check out the newly installed footwash station, water fountain,

and boardwalk. Still to come will be a series of interpretive signs throughout the village. I hope that you appreciate all the work we were able to accomplish thanks to your fees and the American Recovery and Reinvestment Act.

The spectacular natural and historic features and recreational opportunities of this Lakeshore belong to you and are yours to explore. Relax, renew, rejoice and/or recreate on maintained trails, perched dunes, pristine beaches, hidden lakes, quiet rivers, beautiful forests, secluded islands or historic farmsteads. All of this and more is waiting here for you at Sleeping Bear Dunes National Lakeshore.

I wish you a safe, rewarding, and memorable experience, and hope that you will visit Sleeping Bear Dunes National Lakeshore again very soon.

Enjoy!
Dusty Shultz
Superintendent

National Park Entrance Passes

A park entrance pass is required whenever and wherever you venture into Sleeping Bear Dunes National Lakeshore and must be displayed on the driver's side of your vehicle windshield or dashboard. When parking outside the Lakeshore boundary and entering on foot or bicycle, carry your pass. Purchase a pass at the visitor center or Platte Point fee machine all year round; or seasonally at campground offices, Pierce Stocking Scenic Drive, or the Dune Climb during regular hours of operation, or between 8:30 a.m. and 10 a.m. at Leland Harbor. Passes may also be purchased May thru October, 24 hours a day, at the self-pay fee canisters at the Maritime Museum and at road-end beaches: Peterson, Esch, North Bar Lake, CR 669, and CR 651.

\$10 Seven-day Pass for Sleeping Bear Dunes NL

Admits pass holder and all passengers in a non-commercial vehicle. *Non transferable and valid for 1-7 days.*

Free admission for children 15 and under

\$20 Annual Pass for Sleeping Bear Dunes NL

Admits pass holder and all passengers in a non-commercial vehicle. *Only valid at this park for one year from month of purchase.*

\$10 Senior Pass for National Parks and Federal Recreational Lands

Lifetime pass for U.S. citizens or permanent residents age 62 or over. One-time fee provides access to Federal recreation sites. Admits pass holder and all passengers in a noncommercial vehicle. May provide a 50 percent discount on recreational fees such as camping and tours. *Can be obtained in person or through the mail for a \$10 processing fee. For more information, visit <http://lstore.usgs.gov/pass/index.html>.*

\$80 Annual Pass for National Parks and Federal Recreational Lands

Provides access to all Federal recreation sites for a year from month of purchase. Admits pass holder and all passengers in a non-commercial vehicle. *Can be obtained in person or through the mail for a \$10 processing fee. For more information, visit <http://lstore.usgs.gov/pass/index.html>.*



\$5 Individual Seven-day Pass for Sleeping Bear Dunes NL

Admits one individual (age 16 and up) on foot, bicycle, motorcycle, or noncommercial bus. *Non transferable and valid for 1-7 days.*

Access Pass for National Parks and Federal Recreational Lands

Free lifetime pass for U.S. citizens or permanent residents with permanent disabilities. Documentation is required. Provides access to Federal recreation sites and admits pass holder and all passengers in a noncommercial vehicle. May provide a 50 percent discount on recreational fees such as camping and tours. Must be obtained in person and is non transferable. *Acceptable documentation includes: statement by a licensed physician, or a document issued by Veteran's Administration, Social Security Administration or a state agency.*

Academic School Groups

An educational fee waiver is available for bona fide groups that apply prior to their visit. *Call 231-326-5134 or visit the website: www.nps.gov/slbe.*

Commercial Vehicle Fees

Vehicle	Capacity	Fee
Sedans	1-6	\$25.00*
Van	7-15	\$40
Minibus	16-25	\$40
Motorcoach	26+	\$100

* Sedans—\$25.00 commercial fee plus \$5.00 per person fee for each passenger

Fee-free days

The National Park Service is offering entrance fee-free days (camping and other fees still in effect). Come to Sleeping Bear Dunes National Lakeshore (or any national park) on one of these days, and enjoy the sun, sand, and history for free:

April 16 - 24 (National Park Week)
June 21 (First day of summer)
September 24 (National Public Lands Day)
November 11 - 13 (Veteran's Day)

Listening Assistance Available



Do you have trouble hearing information at ranger programs because of competing sounds?

Try out the FM wireless listening system available for your use in the Lakeshore. The equipment amplifies the sound of a ranger's voice, which you hear through a headset, neck loop, or earbuds. Use the wireless system for a ranger-led hike or evening program, or at the visitor center in Empire, the campground offices, or the General Store in Glen Haven. A listening system is also available for the multimedia program at the visitor center.



Visitors wishing to use the equipment are encouraged to call ahead and arrive early.

Local Information

Sleeping Bear Dunes National Lakeshore
231-326-5134
www.nps.gov/slbe

Benzie County Chamber of Commerce
231-882-5801
www.benzie.org

Empire Chamber of Commerce
www.empirechamber.com

Frankfort Chamber of Commerce
www.frankfort-elberta.com
231-352-7251

Glen Lake Chamber of Commerce
231-334-3238
www.visitglenarbor.com

Leelanau Chamber of Commerce
231-271-9895
www.leelanauchamber.com

Traverse City Chamber of Commerce
231-947-5075
www.tcchamber.org

Traverse City Visitors Bureau
231-947-1120
www.tvvisitor.com



Printed on recycled paper

Making the Most of Your Time



©Mark Lindsay

Photo: Mark Lindsay

If you have less than 3 hours: try these

Pierce Stocking Scenic Drive

This driving loop overlooks some of the Lakeshore's most unique scenery. Open April-November, weather permitting.
*M-109, 3 miles north of Empire
Length: 7.5 miles, 90 minutes*

Dune Climb

No visit would be complete without climbing this 110-foot high sand dune. Take water, sunscreen, and good footwear. **Great for kids!** See page 6 for trail info to Lake Michigan from the top of the Dune Climb. (It's a 3-mile-plus hike!)
*M-109, 6 miles north of Empire
Length: 30 minutes*

Explore Glen Haven

This steamship stop on Sleeping Bear Bay dates back to the turn of the 20th century. Visit the Blacksmith Shop, General Store, and Cannery. The Maritime Museum tells the stories of the U. S. Life Saving Service in a fully restored station. *Heroes of the Storm* shipwreck rescue demonstration at 3:00 pm (seasonal). **Great for kids!** Details on page 10.
*M-209, 7 miles north of Empire
Length: 0.5-3 hours*

Inspiration Point

With a view of the Glen Lakes, Alligator Hill, and North Manitou Island, this overlook provides the perfect finale for any trip.
*M-22 to McFarlane Rd., 8 miles east of Empire
Length: 5 minutes*



More than 3 hours: add these

The Platte and Crystal Rivers

Canoe or kayak these calm rivers. Rent equipment near either launch site if you don't have your own. **Great for kids!**
*Platte River: M-22 or Lake Michigan Rd. 10 miles south of Empire
Crystal River: M-22 east of Glen Arbor
Length: 2-3 hours*

Sleeping Bear Point Trail (#9)

A short hike along a portion of this trail offers a panoramic view of the shoreline, dunes, and islands. Follow the blue-tipped posts to the overlook and return along the same route. For a longer hike, complete the entire loop through a ghost forest, over dunes, and back through the woods. Take water, sunscreen, and good footwear. Details on page 6.
*M-209, 8 miles north of Empire
Length: 0.5 miles, 30-60 minutes.
Entire trail: 3 miles, 2-3 hours*

Port Oneida Historic Farm Tour

Feel a century slip away in the largest historic agricultural landscape in all of the national parks. Bicycle or drive the back roads to old farmsteads, fields, orchards, and cemeteries. A driving tour brochure and a cell phone tour are available. Stop in at the historic Olsen Farmhouse—office of Preserve Historic Sleeping Bear. Details on page 4.
*M-22, 3 miles north of Glen Arbor
Length: 1-2 hours*



©Mark Lindsay



©Mark Lindsay



©Mark Lindsay

A full day: try South Manitou Island

Ferry information on page 12.

Tour the Lighthouse

Learn about the history of the South Manitou Island Lighthouse and U.S. Life Saving Service Station. Climb the 100-foot tall tower for sweeping views of the Manitou Passage.
*The lighthouse is 0.3 miles from dock
Length: 30 minutes*

Motorized Island Historical Tour

Manitou Island Transit offers open-air tours for island visitors. Explore the history of the old schoolhouse, cemetery, and farms. For costs and reservations, call 231-256-9061.
*Begins in the village after ferry arrives
Length: 2 hours*

Giant Cedars and Shipwreck Hike

Hidden on the island's southwest corner, a stand of old-growth white cedar—called the Valley of the Giants—escaped the lumbermen. Nearby, view the shipwrecked Liberian freighter, the *Francisco Morazan*, which ran aground in 1960.
*Begins and ends in the village
Length: 7 miles round trip, 3-4 hours*

The ferry leaves on schedule—don't be late!





We're Becoming a Climate Friendly Park!

As steward of our national cultural and natural treasures, the NPS is taking a leading role in sustainability and climate change mitigation to ensure these special places are around for the enjoyment of future generations.

Through everyday activities such as the use of electricity to power our lights and gadgets, and driving gas-powered cars, we generate greenhouse gas emissions.

Greenhouse gases include water vapor, carbon dioxide, methane, and other gases that trap heat in our atmosphere like glass in a greenhouse. You experience the greenhouse effect in miniature when you leave your car sitting in the sun. With too thin a layer, Earth would have a climate like Mars with extreme freezing temperatures; with too thick a layer Earth would be like Venus, four times hotter than boiling water. Earth's climate has been just right for us to survive for thousands of years, but it's always changing.

If our climate has always changed on its own, what's the big deal now, and why do humans get the blame?

It isn't the change that startles scientists, it's the speed. Going down ten flights in a slow elevator shouldn't alarm you, but going down at 100 miles an hour should. Humans and every other species of living thing are adaptable, but we need time to adapt.

This most recent warming trend doesn't correlate with natural causes (such as solar radiation changes or the Earth's wobble) like it has in the past. It correlates with increased greenhouse gases in our atmosphere. These extra gases can be traced to our energy consuming activities by their chemical signature.

So What?

Global climate, like weather, has too many variables for scientists to make exact predictions. However, by observing the effects of these rapid changes, climate scientists make forecasts based on data and trends, just as meteorologists do. If we don't change our energy consuming activities these forecasts predict many undesirable things.



Port Oneida Planning

Sleeping Bear Dunes National Lakeshore is preparing a Cultural Landscape Management Plan and an associated Environmental Assessment for the Port Oneida Rural Historic District. This is a step in NPS efforts to protect and preserve the District's cultural landscapes and resources, to provide visitors with interpretive and recreational opportunities.

Port Oneida is representative of the late 19th and early 20th century farms of the Midwest. The 18 farms, 113 structures, and 3,400 acres constitute one of the largest intact agricultural districts in the National Park System and provide an excellent opportunity to preserve a rapidly disappearing landscape associated with an important time period in the heartland of America.



The Plan/EA is needed to determine the best way to halt deterioration of the cultural landscape, and preserve it for future generations to enjoy.

To learn more, visit www.nps.gov/slbe/parkmgmt/poplanea.htm.

Sky Watch	DATE	SUNRISE	SUNSET	FULL MOON
	May 1	6:35 am EDT	8:48 pm EDT	
	May 15	6:17 am	9:05 pm	
	June 1	6:02 am	9:22 pm	
	June 15	5:58 am	9:32 pm	
	July 1	6:02 am	9:34 pm	
	July 15	6:12 am	9:28 pm	
	August 1	6:30 am	9:12 pm	
	August 15	6:46 am	8:52 pm	
	September 1	7:06 am	8:24 pm	
	September 15	7:22 am	7:58 pm	
	October 1	7:41 am	7:27 pm	
	October 15	7:59 am	7:02 pm	
	November 1	8:21 am	6:35 pm	
	November 15	7:41 am EST	5:17 pm EST	
	December 1	8:01 am	5:05 pm	
	December 15	8:14 am	5:04 pm	

WEATHER AND CLIMATE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	Temperature (°F)												
	average daily max.	26	29	38	53	66	75	79	76	68	55	42	30
	average daily min.	9	9	18	32	42	51	56	54	47	37	28	17
	extreme high	53	59	76	86	90	95	98	94	92	85	70	63
	extreme low.	-26	-34	-23	3	21	29	33	29	21	16	-2	-21
	days above 90°F (avg)	0	0	0	0	1	1	2	1	1	0	0	0
	days below 32°F (avg)	31	28	31	27	20	9	3	5	13	26	29	31
	Precipitation (inches)												
	precipitation average	1.5	1.1	2.1	2.4	2.6	3.0	2.6	3.3	3.4	2.4	2.4	2.0
	maximum precipitation	3.1	3.4	5.7	4.7	6.0	6.7	5.0	7.2	9.5	8.1	5.1	4.5
	maximum snowfall	38	24	29	12	2	0	0	0	1	4	19	30
	days with precip	15	11	12	12	10	10	9	10	12	12	14	15
	days with snow	18	13	10	4	1	0	0	0	1	1	8	15
	days with thunderstorms	-	-	1	2	4	5	6	6	4	1	1	-

Summer Ranger Programs

June 11 - August 13, 2011



Sunday		Thursday	
11:00 am	Water, Water, Everywhere! Learn about the wonders of the Great Lakes, take a peek at Otter Creek, and hike through the forest to explore the hidden marl springs to discover some of the plants and animals that like to keep their feet wet. <i>Esch Road: Take M-22 south of the visitor center 3.9 miles, turn right on Esch Road, and park at the end of the road.</i> 1 hour; 1 mile	11:00 am	A Hidden Treat Discover the joys and hardships of life on the Treat family farm on a guided hike to their home, barn, and circular garage. <i>Treat Farm: Take M-22 south of the visitor center 1.8 miles, turn right on Stormer Road, and park on the side of the road by the red barn.</i> 1-1½ hours; 1½ miles.
1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.	11:00 am	Bike Tour: Aliens in the Ecosystem Ride along old farm roads past fields and forests and visit a ghost town by the beach. Learn how alien invaders hitchhiked around the world to cause problems of natural, cultural, and historical proportions in the Great Lakes. <i>Meet at the house on corner of M-22 and Stormer Road.</i> 2.5 hours; 10 miles.
3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum.</i> 30 min.	1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.
4:00 pm	Be a Junior Ranger Start earning your Junior Ranger badge by exploring, learning, and protecting the park! Children must be accompanied by an adult. <i>Platte Beach: Take M-22 south of the visitor center to Lake Michigan Road. Meet the ranger on the beach at the end of Lake Michigan Rd.</i> 30 min.	3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum.</i> 30 min.
8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.	3:30 pm	Lyle Gun Firing Demonstration Watch a firing of the Lyle Gun, a line-throwing cannon, that was used by the U.S. Lifesaving Service and U.S. Coast Guard for over 75 years to rescue thousands of shipwreck victims. <i>Maritime Museum: Meet on the beach at the Maritime Museum, following the 3 p.m. Heroes of the Storm demonstration.</i> ½ hour
Monday		4:00 pm	By Land and Water: Sleeping Bear Point We will get to the Point of Sleeping Bear by exploring this unique landscape of shifting sands. <i>Sleeping Bear Point trailhead just past the Maritime Museum west of M-109 and Glen Haven.</i> 1 hour, 1 mile.
11:00 am	Be a Junior Ranger Start earning your Junior Ranger badge by exploring, learning, and protecting the park! Children must be accompanied by an adult. <i>Cannery Beach: Take M-22 north from the visitor center to M-109. Meet the ranger at the viewing deck.</i> 30 min.	8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.
1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.	Friday	
3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum;</i> 30 min.	11:00 am	Be a Junior Ranger Start earning your Junior Ranger badge by exploring, learning, and protecting the park! Children must be accompanied by an adult. <i>Esch beach: Take M-22 south from the visitor center 3.9 miles. Turn right on Esch Rd. Meet the ranger on the beach.</i> 30 min.
4:00 pm	Leave it to the Beaver Explore the busy lives of these furry engineers who were creating lakes, clearing forests, and building dams long before humans did. <i>Trails End: Meet at the Platte Plains trailhead on Trails End Road: Take M-22 to the pair of 30 mph curves-6.1 miles south of Empire, 4 miles north of the Platte River.</i> 1½ hours, 1½ miles	1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.
8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.	3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum.</i> 30 min.
Tuesday		4:00 pm	Empire Bluff Hike through the wooded hills of a glacially-formed landscape, and be rewarded with spectacular views of Lake Michigan and the dunes. <i>Empire Bluff trailhead: Take M-22 south of the visitor center 1.7 miles, turn on Wilco Road, and park at the Empire Bluff trailhead.</i> 2 hours; 1½ miles
11:00 am	Aral: History, Mystery, and Murder Explore the site of a once-booming lumber town that vanished. Learn of the hidden history, mystery, and murders, and what happened to the town. Long pants and closed-toed shoes are recommended. <i>Esch Road: Take M-22 south of the visitor center 3.9 miles, turn right on Esch Road, and park at the end of the road.</i> 1½ hours; 1 mile	8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.
1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.	Saturday	
3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum.</i> 30 min.	11:00 am	Bug Fun Explore a world so tiny we'll have to use a magnifying glass to see it. Meet the ranger at the Dune Climb to see what the "buzz" is all about. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 1 mile; 1 hour.
4:00 pm	Be a Junior Ranger Start earning your Junior Ranger badge by exploring, learning, and protecting the park! Children must be accompanied by an adult. <i>Meet the ranger at Maritime Museum.</i> 30 min.	1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.
8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.	3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum;</i> 30 min.
Wednesday		4:00 pm	Glen Haven: Capital of D. H. Day's Empire Feel the past come back to life on a guided walking tour of this once-bustling historic village. <i>Glen Haven: Meet at the General Store.</i> 1½ hours; 1½ miles.
11:00 am	Port Oneida Farms Tour Learn about life on the farm while exploring the farmsteads of Port Oneida, the largest Rural Historic District in the National Park System. <i>Port Oneida: Meet at the old Port Oneida schoolhouse on the corner of Port Oneida Road and M-22 to car caravan to the starting location of the walking tour. Take M-22 north from the visitor center 13.1 miles to Port Oneida Road.</i> 1½ hours; 1½ mile	8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.
1:00 pm	Dune Dialogs How did this 110-ft dune and all of its neighbors get here? Where are they going? Find out at this fast, fun talk. <i>Dune Climb: Meet the ranger at the base of the Dune Climb.</i> 15 min.	* An Evening Out with a Ranger - details No programs July 4 (local firework displays), July 10 (Dune Concert), or August 12 and 13 (Port Oneida Fair). D.H. Day Campground Amphitheater and Platte River Campground Amphitheater. Parking for DH Day Campground is by the log cabin at the rear of the campground, a short walk from the amphitheater. Parking for Platte River Campground is in the lot next to the ranger station. Both facilities are handicapped accessible. Recommended for all programs: water, insect repellent, sunscreen, sturdy walking shoes. No ranger programs August 12 and 13 because we will all be at the Port Oneida Fair. See you there!	
3:00 pm	Heroes of the Storm This hands-on demonstration of a turn-of-the-century shipwreck rescue is designed for children of all ages. <i>Maritime Museum;</i> 30 min.		
4:00 pm	Windy Moraine - I Speak for the Trees On a guided hike through the woods of Sleeping Bear Dunes learn about what trees do for you and what you can do for the trees. <i>Meet at the Windy Moraine trailhead across from the Pierce Stocking Scenic Drive entrance on Welch Road. Take M-22 north from the visitor center. Turn left on M-109 to Welch Rd, turn right.</i> 1.5 miles; 1.5 hours		
5:00 pm	Bike Tour: Discovering the Changing Landscape Ride through the tranquil landscapes of Port Oneida, stop at some of the old farms, and learn about invasive species and their effect on the environment. <i>Port Oneida: Meet at the picnic area on the corner of M-22 and Basch Road.</i> 2 hours; 7 miles		
8:00 pm	An Evening Out with a Ranger* Enjoy an evening outdoors with a park ranger at the Platte River Point and D.H. Day campground amphitheaters. Hear talks on the park's treasure trove of nature and history. For details/topics, ask at campground offices, or call the visitor center: 231-326-5134 x 328. 45 min.		

Sleeping Bear Dunes National Lakeshore

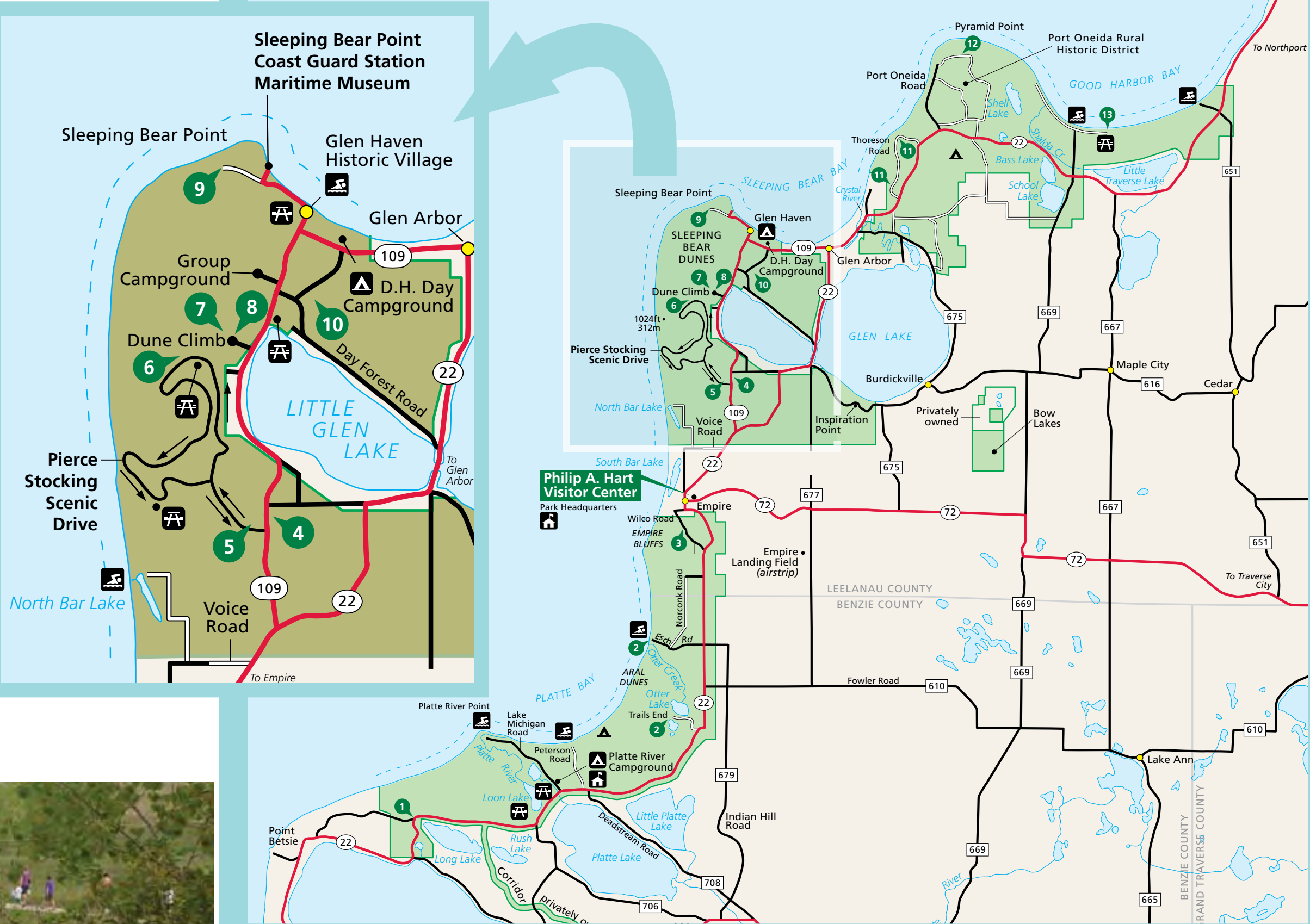
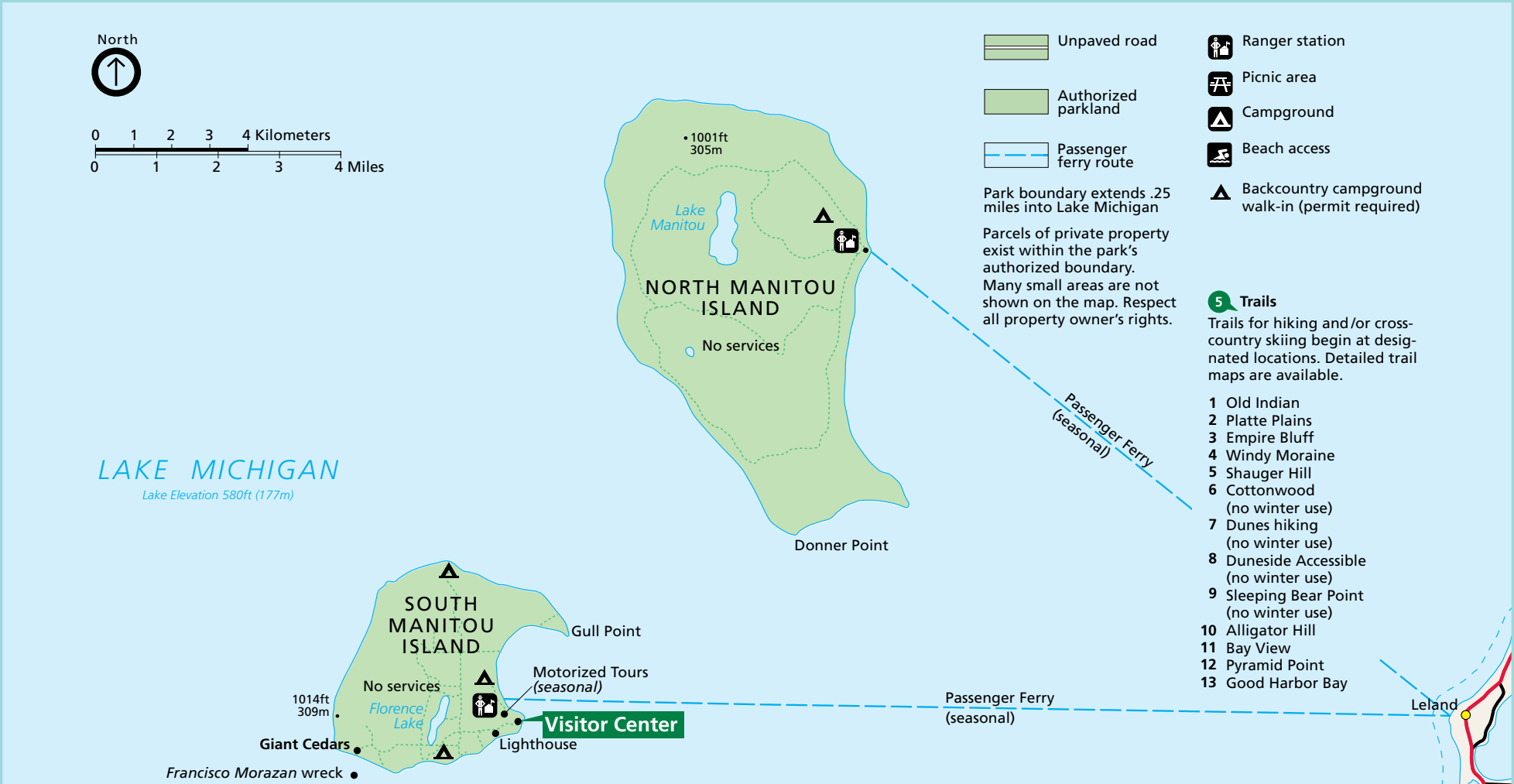



Trail Guide

Trail	Round trip	Description	Park Map
Old Indian Trail	2.5 mi 	Easy hike, easy to advanced ski - Two fairly flat loops begin in a mixed evergreen and hardwood forest and wind through low dunes to the Lake Michigan shore. <i>Trailhead: off M-22, north of Sutter Rd.</i>	1
Platte Plains Trail	3.5 - 14.7 mi 	Watch for junctions. <i>There are multiple trailheads (Otter Creek:Esch Rd., Trails End Rd., off M-22, & Platte River Campground).</i> Bass Lake Loop: (3.5 mi) Easy hike and ski - Winds around Bass and Deer Lakes. Some sections follow a two-track road. Otter Creek Loop: (4.6 mi) Easy hike and ski - Follows Otter Creek and Otter Lake. Flat, with pine-oak-aspen forests and open meadows. Lasso Loop: (6.3 mi) Moderate hike, easy to advanced ski - Winds through pine-oak-aspen forests. Scenic overlooks of Lake Michigan. Several road crossings.	2
Empire Bluff Trail	1.5 mi 	Moderate hike - Winds through a beech-maple forest to an overlook. Wildflowers and woodland plants are abundant. For your safety and to prevent erosion, please do not descend the bluff. <i>Trailhead: Wilco Rd. off M-22</i>	3
Windy Moraine Trail	1.5 mi 	Moderate hike, advanced ski - A quiet trail with a view of Glen Lake from atop a hill. Trail leads through beech-maple forest and old farm fields. <i>Trailhead: Welch Rd. east of M-109</i>	4
Shauger Hill Trail	2.4 mi 	Moderate hike, advanced ski - Includes beech-maple forest, and steep hills and crosses the Pierce Stocking Scenic Drive twice. Watch for traffic at the crosswalks. In winter, the Scenic Drive is closed to vehicles for use as a cross-country ski and snowshoe trail. Eight additional miles of hilly terrain challenge winter visitors. Watch for snowmobiles where the trail crosses Shauger Hill Rd. <i>Trailhead: parking lot near Pierce Stocking Scenic Drive entrance, M-109</i>	5
Cottonwood Trail	1.5 mi 	Moderate - Hilly, all sand, and no shade. Leads onto the perched dunes through native grasses, shrubs, and wildflowers. Views from above the Dune Climb of D. H. Day farm and Glen Lake. Take water, sunscreen, hat, and shoes. <i>Trailhead: Stop #4 along the Pierce Stocking Scenic Drive, M-109</i>	6
Dunes Hiking Trail	3.5 mi 	Strenuous - Hilly, all sand, and no shade. Travels over nine hills through the high dunes plateau to Lake Michigan. Blue-tipped posts mark the trail. It can be a hot, exhausting, three to four hour trip. Plan ahead. Take water, sunscreen, hat, shoes, and a snack. <i>Trailhead: the Dune Climb, M-109</i>	7
Duneside Accessible Trail	0.9 mi 	Easy - The trail is accessible to those with physical and visual impairments. Great for strollers. There are benches along the way and a quiet viewing deck at the end. Be sure to visit the measuring board to calculate the speed at which the dune is moving. <i>Trailhead: north end of the Dune Climb, M-109</i>	8
Sleeping Bear Point Trail	2.8 mi 	Strenuous - Hilly, all sand, and no shade. Leads onto the dunes, through a ghost forest, and overlooks Lake Michigan. Blue-tipped posts mark the trail. For a shorter option, a spur leads to Sleeping Bear Point from where you can follow the beach back to the Maritime Museum and trailhead. Plan ahead. Take water, sunscreen, hat, shoes, and a snack. <i>Trailhead: end of Sleeping Bear Dunes Rd. off of M-209, west of Maritime Museum</i>	9
Alligator Hill Trail	3 - 8 mi 	All three loops lead through a beech-maple forest to a bench which overlooks Lake Michigan and the Manitou Islands. A 1.6 mile spur takes you along the ridge to the Glen Lake overlook. <i>Trailhead: east of D.H. Day campground, off Stocking Rd. near its intersection with Day Farm Rd.</i> Only trail upon which horse use is allowed. Easy hike and ski loop: 3 mi, 4.6 mi with spur Moderate hike, intermediate ski loop: 4.7 mi, 6.3 mi with spur Moderate hike, advanced ski loop: 4.6 mi, 6.2 mi with spur	10
Bay View Trail	2.4-7.5 mi 	Provides views of Lake Michigan and the Port Oneida Rural Historic District. Several loops of different lengths and difficulties. <i>Trailhead: off Thoreson Rd. near M-22</i> Farm Loop: (2.4 mi) Easy hike and ski - Wanders through farms and fields and by an historic schoolhouse to Lookout Point. Ridge Loop: (4 mi) Moderate hike, advanced ski - The low trail leads through fields and forest. The high trail follows the ridge for views of Lake Michigan.	11
Pyramid Point Trail	1.2 - 2.7 mi 	Moderate - To the bluff and back is 1.2 miles. Climbing a steep hill, it provides an overlook of Lake Michigan and the Manitou Islands. For your safety and to prevent erosion, please do not descend the bluff. The entire loop trail is 2.7 miles and follows a portion of Basch Rd. <i>Trailhead: off Basch Rd; follow Port Oneida Rd. north from M-22.</i>	12
Good Harbor Bay Trail	2.8 mi 	Easy hike and ski - A flat loop trail through woods and wetlands. <i>Trailhead: off Lake Michigan Rd.; take CR 669 north from M-22; follow Lake Michigan Rd. east.</i>	13
Additional trail information: <ul style="list-style-type: none">No pets on designated ski trails from December 1 through March 31.Directional arrows and difficulty levels on maps are for use by cross country skiers. Snowshoers should not walk on top of ski tracks.Check for ticks, which can carry Lyme disease. If an imbedded tick is discovered, note the date and time of removal in case complications develop later.Please leave plants, rocks, and other natural objects undisturbed for other visitors to enjoy. Do not collect ghost-forest wood, any wood on the dunes, or wildflowers. Ask the rangers about what fruits, berries, and mushrooms you can pick.Always tell someone where you are going hiking and when you'll be back.			

Leave No Trace

- Plan ahead and prepare**
Prepare for extreme weather and emergencies. Bring food and water. Don't forget your park pass!
- Camp and travel on durable surfaces**
Stay on established trails and campsites.
- Dispose of waste properly**
Pack it in, pack it out.
- Leave what you find**
Preserve the past and leave rocks, plants and other items as you find them for others to discover.
- Minimize campfire impacts**
Use established fire rings. Keep fires small. Burn wood to ash. Put all fires out completely.
- Respect wildlife**
Observe wildlife from a distance. Never feed animals. Store food properly.
- Be considerate of other visitors**
Respect other visitors and protect the quality of their experience. Let nature's sounds prevail.



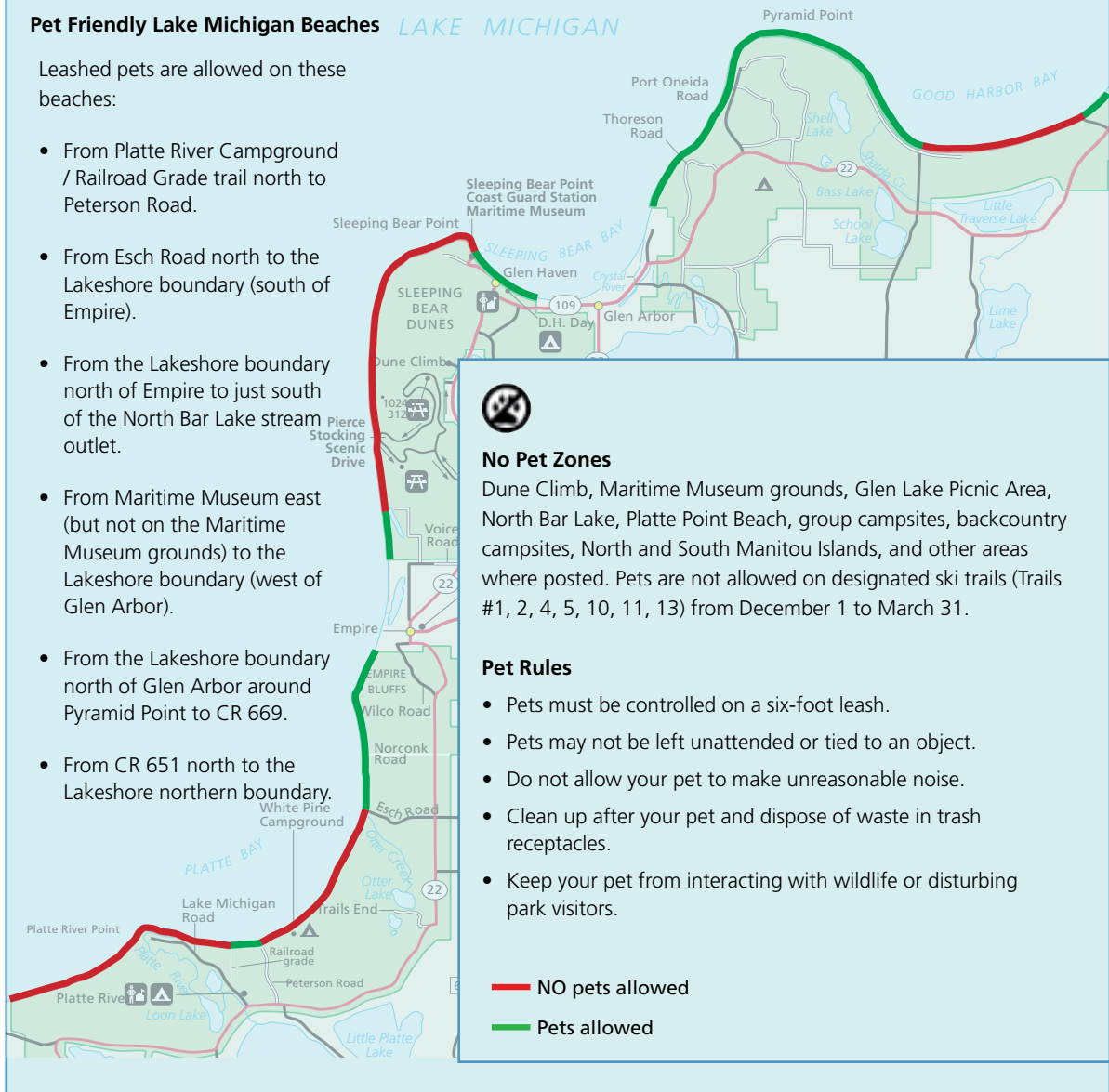


Pets in the Park

Pet Friendly Lake Michigan Beaches

Leashed pets are allowed on these beaches:

- From Platte River Campground / Railroad Grade trail north to Peterson Road.
- From Esch Road north to the Lakeshore boundary (south of Empire).
- From the Lakeshore boundary north of Empire to just south of the North Bar Lake stream outlet.
- From Maritime Museum east (but not on the Maritime Museum grounds) to the Lakeshore boundary (west of Glen Arbor).
- From the Lakeshore boundary north of Glen Arbor around Pyramid Point to CR 669.
- From CR 651 north to the Lakeshore northern boundary.



No Pet Zones


Dune Climb, Maritime Museum grounds, Glen Lake Picnic Area, North Bar Lake, Platte Point Beach, group campsites, backcountry campsites, North and South Manitou Islands, and other areas where posted. Pets are not allowed on designated ski trails (Trails #1, 2, 4, 5, 10, 11, 13) from December 1 to March 31.

Pet Rules

- Pets must be controlled on a six-foot leash.
- Pets may not be left unattended or tied to an object.
- Do not allow your pet to make unreasonable noise.
- Clean up after your pet and dispose of waste in trash receptacles.
- Keep your pet from interacting with wildlife or disturbing park visitors.

Legend:

- NO pets allowed
- Pets allowed



Protect Your Park from Bullies

These invasive bullies don't steal lunch money, they steal survival.

Hundreds of non-native species have moved to the Great Lakes region since the first European settlers, and new ones arrive every day. Luckily only about 10-15% become invasive bullies, but that's enough to wipe out entire food chains and entire ecosystems if they are not stopped.



Volunteers add to a pile of baby's breath pulled from dunes.

Invasive species such as zebra and quagga mussels completely change our lakes' food webs and bury our beaches with mussel shells and algae. The tiny emerald ash borers, no bigger than a penny, will kill 100% of the ash trees they infect. Baby's breath is all the eye can see or nose can smell (and they're no rose).

Black locust trees were historically planted by European settlers because they grow quickly and are rot resistant, but they too have become bullies, which is why the park is removing them. Some black locust trees will be spared where they are an important part of the cultural landscape.

We Need Your Help

With no predators to limit their growth or reproduction, invasives attack and easily out-compete native plants and animals for food, water, and sunlight. But with your help to slow their spread, scientists may have time to find limits for them before the damage is irreversible.

- To slow the spread of invasive bullies like the emerald ash borer, DO NOT move firewood. Buy where you burn and burn where you buy. (Please see page 11.)
- To stop hitchhiking bullies, check for seeds and brush off your clothing, gear and shoes before and after hikes. (Look for new boot brush stations to be installed at high risk areas)
- To stop the spread of aquatic hitchhiking bullies (like mussels, water fleas, and vegetation), clean your boat and let it dry between uses in different waterways.
- To slow dune erosion (and subsequent bully invasions), climb the dunes only in designated areas.
- To avoid introducing new bullies at home, plant only native plants.

Chipmunks, Raccoons, and Bears, Oh My!

National Parks are wonderful places to see a great variety of wildlife. But we need your help to keep the wildlife truly wild and healthy.

Chipmunks and raccoons become a problem when they associate people with easy food, but black bears become an even bigger problem if they make that connection. A single taste of human food or trash is enough to turn a wild bear into a food-conditioned bear. Sadly, a bear that obtains human food may lose its natural fear of humans, becoming bold or aggressive, and eventually paying the ultimate price—it may be killed.

Even though you may not get the chance to see a bear on this visit, we all have the chance to save a bear.

How can I help?

Every visitor can help keep these animals and other wildlife wild by storing their food properly. Food for bears includes all food, trash, beverages, and anything with a scent, including: toiletries, lotions, toothpaste, soaps, insect repellent, pet food, medicine, perfume, gum, candy, empty food or beverage containers,

tobacco products, dirty dishes, scented tissues, etc.

While some of these items might surprise you, bears are very curious and have a sense of smell that can be 100 times better than a bloodhound! They can even smell food and beverages in sealed cans and bottles. Store these properly.

How do I store food?

When camping:

- Store all food, drinks, trash, and scented items in animal-proof food storage boxes or your vehicle trunk, with vehicle windows and doors closed, day and night, whether your campsite is occupied or not.
- Never store food, drinks, trash, or scented items in your tent!
- Do not dispose of food or trash in fire rings.
- Do not leave food unattended, even for a few minutes.

When hiking or picnicking:

- Keep food, drinks, and trash with you or within arm's reach at all times.
- Never walk away from your food or leave your food unguarded.

What if I see a bear?

Congratulations! A bear sighting is a rare occurrence and will be a memory to cherish. Stay at least 150 feet (45 meters) away from the bear and enjoy watching how it moves through the landscape or forages for natural foods. If a bear alters its behavior in response to your presence, you're too close. Give the bear more space by backing away slowly. Please report the sighting to a park ranger.

If you encounter a bear:

DO

Stay at least 150 feet away and give the bear plenty of room to pass if possible. If not possible, yell at the bear, and stay over 150 feet from the bear. Keep small children near adults. Please report the sighting to a park ranger.

DON'T

Approach or surround a bear. Never run from a bear or get between a sow and her cubs.

If the bear approaches you:

DO

Guard your food and trash. Make a lot of noise. Yell aggressively at the bear. Keep small children near adults. Please report the sighting to a park ranger immediately.

DON'T

Approach or surround a bear. Never run from a bear or get between a sow and her cubs. NEVER store food, beverages, trash, or scented items in tents.





Mainland Lake Michigan Beaches


Let your bare feet guide you along the park's many sandy beaches. There are no concessions, so pack a picnic and your sunscreen. For your safety, glass containers are prohibited on beaches, waterways, and dune areas. Fires are permitted on mainland Lake Michigan beaches between the water's edge and the first dune, away from any vegetation. The following beaches have vault toilets unless noted.


A park entrance pass is required for any use of the National Lakeshore and is available at locations throughout the park (details on page 2).


Platte Point Beach features the Platte River outlet where warmer water enters Lake Michigan. Benches, accessible flush toilets, and a picnic area are provided. Please note that a section of the shoreline is sometimes closed to protect nesting piping plovers. Regardless of the lot in which you park, a park entrance pass is required to use the National Lakeshore. A separate township fee is required to use the adjacent township park.


 No pets allowed
At the end of Lake Michigan Rd. Off M-22, 12 miles south of Empire


Peterson Beach has a boardwalk crossing the low dunes from the parking lot to the beach. It's a quiet stretch of sand with wide vistas of Empire Bluff to the north and Platte River Point to the south.
 Leashed pets allowed to the left of the boardwalk when facing the water.
At the end of Peterson Rd. Off M-22, 11 miles south of Empire

Esch Beach, also called Otter Creek Beach, is another popular swimming area. The shore to the south is divided by the shallow outlet of Otter Creek.
 Leashed pets allowed to the right of Esch Rd. when facing the water.
At the end of Esch Rd. Off M-22, 5 miles south of Empire

North Bar Lake is a popular spot. This warm lake connects to Lake Michigan and its beaches. Some areas have experienced severe dune erosion and may be closed for restoration. Please obey closure signs.
 No pets allowed
At the end of LaRohr Rd. From Empire, take M-22 north, left on Voice Rd., right on Bar Lake Rd., left on LaRohr Rd.

Glen Haven Beach is on Sleeping Bear Bay. Views look west past the Maritime Museum to Sleeping Bear Point, north to the Manitou Islands, and east to Pyramid Point. Please note that a section of the shoreline is sometimes closed to protect nesting piping plovers. Adjacent picnic area with grills and nearby flush toilets are provided.
 Leashed pets allowed to the right of the Maritime Museum when facing the water to all the way past the Cannery and D. H. Day Campground.
M-209, 7 miles north of Empire

County Road 669 Beach is on Good Harbor Bay. To the west, view Pyramid Point; to the north, the Whaleback and North Manitou Island. The Fox Islands may be visible on a clear day. Shalda Creek empties into Lake Michigan to the west of the parking area. Lake Michigan Rd. parallels the bay for several miles. Follow it east to a pleasant shoreline picnic area and the Good Harbor Bay trailhead (#13).
 Leashed pets allowed to the left of CR 669 when facing the water.
At the end of CR 669 (Bohemian Rd.) Off M-22, 18 miles north of Empire

County Road 651 Beach features wonderful sunset views on Good Harbor Bay. To the west, view Pyramid Point and to the north, the Whaleback and North Manitou Island. The Fox Islands may be visible on a clear day.
 Leashed pets allowed to the right of CR 651 when facing the water.
At the end of CR 651 (Good Harbor Tr.) Off M-22, 12 miles north of Glen Arbor

Piping Plover Update

In 2010, there were 60 breeding pairs in the entire Great Lakes piping plover population; 23 of those were within the Lakeshore. These numbers were down from 2009's record 71 pairs regionwide and 25 in the Lakeshore. The cold summer of 2009 and a cold winter on the wintering ground in 2009-2010 may be factors. Although 60 is a small number of plover pairs, in 1986, there were only 16. That year piping plovers were given protection under the Endangered Species Act. The population has slowly increased since that time due to the many organizations, agencies, and individuals watching over and protecting them. For more information, visit www.nps.gov/slbe/planyourvisit/upload/Piping_Plover.pdf

Shoreline oddities

Walking the beaches of Sleeping Bear Dunes National Lakeshore for the first time or the one hundredth is equally breathtaking. However, once in a great while you might cross the path of something that takes your breath away for all the wrong reasons.

What's that stinky goo?

It's *Cladophora*, a filamentous green alga that naturally occurs in Lake Michigan, though not naturally in such volume. When it dries it can look similar to torn or tattered tissue. It grows on submerged rocks, logs, or other hard surfaces, but wind and waves can break it free, washing it to shore where it decays and releases a septic odor. The reasons for the increased growth are being studied. Some factors that are known to increase *Cladophora* growth include the following:

Zebra and quagga mussels: These tiny, but ever-multiplying, non-native invasive filter-feeders eat voraciously, stripping the lake of tiny plankton that normally cloud its water and allowing more light to reach the lake bottom. That may sound good, but clear doesn't mean healthy. Those tiny plankton would have removed waste nutrients and fed our native species. Extra light, plus extra waste nutrients from vast mussel beds can equal *Cladophora*.

Warm water temperatures: *Cladophora* thrives at water temperatures between 50°F to 70°F. Warmer summers can lead to more *Cladophora*.

Human Activity: Algae blooms caused by increased nutrients in lakes are not new. Before state and federal water quality regulations of the 1970s greatly reduced phosphorus levels in home products, blooms were frequent. When this excess nutrient was reduced, so were the blooms. We can all reduce excess nutrients from getting to the lakes by taking a few simple steps. For example, we can help prevent excess fertilizer from washing into lakes and streams by using as little lawn fertilizer as possible and making sure it's phosphorus-free, and we can also clean up after our pets!



Piles of zebra and quagga mussels, coated with fresh decaying green Cladophora wash on shore.

Why are there dead birds on the beach?

When *Cladophora* decays, it presents an ideal breeding ground for botulism bacteria. Birds ingest this poison from eating invertebrates that have ingested it or from fish that have ingested tainted invertebrates.

The U.S. Geological Survey-National Wildlife Health Center have confirmed type E botulism toxin in dead bird specimens collected at Sleeping Bear Dunes National Lakeshore.

You should always exercise caution upon encountering bird or fish carcasses along the beach and keep pets away from dead animals. Ingesting the botulism toxin is poisonous. Beaches within the National Lakeshore remain safe for swimming and recreation, as humans are not at risk for contracting botulism by swimming in Lake Michigan.

The National Park Service at Sleeping Bear Dunes is currently undertaking a study of type E botulism to determine whether there are any steps that can be taken to control outbreaks. Dead birds and fish are identified, counted, and buried when possible. With limited staff and 65 miles of shoreline, not all carcasses will be removed immediately. If you are interested in volunteering to help monitor beaches during botulism outbreaks, please contact the park at 231-326-5134. If you find a dead bird along the shoreline, please report the location to park staff. Please do not bury or remove carcasses without prior authorization from the park.

Glen Haven Historic Village

Step into the colorful past in this company-owned steamboat stop that operated from 1865 until 1931. Sleeping Bearville, as it was originally called, was a natural harbor sought out by steamships sailing between Chicago and Buffalo. Learn more about area history when you visit the restored General Store and Blacksmith Shop. Flush toilets and picnic area with grills are available.
M-209, 7 miles north of Empire

Glen Haven General Store
Treat someone to old-fashioned candy at lumber baron D. H. Day’s General Store, restored to appear as it did in the 1920s. Built in 1867 as a company store, it provided goods for workers. David Henry Day came to Glen Haven in 1878 to work and never left. Learn about his legacy in the exhibit hall and see his office at the back of the store. Today, the historic General Store carries merchandise and items related to the history of Glen Haven, including

kitchenware, food, toys, and books. *Memorial Day weekend though June, Open 12- 5, Fri, Sat, & Sun only. July 1-September 7, Open 12-5 daily*

Cannery Boat Museum
What was once a cherry and apple cannery now houses a collection of historic Great Lakes vessels, including boats, motors, and equipment. Friendly volunteers provide impromptu interpretive talks and answer your questions. Outside, pilings which supported Glen Haven’s dock stretch into Sleeping Bear Bay. *Open 11-5 daily, Memorial Day through Labor Day*

Blacksmith Shop
Hear the ring of a hammer and anvil as the blacksmith stokes up a fire, heats iron until red hot, and forges a tool before your eyes. Volunteers provide demonstrations for all ages. **Great for kids!** *Open 11-5 daily, Memorial Day through Labor Day*



Glen Haven
Improvements begun last year to preserve and interpret the Glen Haven Historic Village will be completed this season. Efforts to rehabilitate Glen Haven began in 1988 and have continued over time as funding allowed. The Blacksmith Shop, the General Store, and the restroom facilities were the first buildings opened. More recent efforts included new footings, foundation and floor for the Cannery building, relocating the fish tug *Aloha* for better accessibility; painting nine buildings; and constructing concrete walks, asphalt parking lots, picnic facilities, timber boardwalks, viewing platforms and over 1,500 feet of historic boardwalk. This year the parking areas will receive striping, wheel stops, and a course of stone to protect the pavement and blend the appearance with the surrounding sand. The fish tug *Aloha* will be placed on a new cradle. Native dune grass will be planted to replace the non-native dune grass removed last year and

interpretive wayside panels will be installed throughout the district. While not included in this year’s work, future plans call for the Sleeping Bear Inn to become a fully functioning inn once more.



Maritime Museum

Tour the crew quarters and boathouse at the Maritime Museum at Sleeping Bear Point. Exhibits highlight the U.S. Life Saving Service and Great Lakes shipping history. Impromptu interpretive talks are given throughout the day. A sand-accessible wheelchair and public rest-rooms are available.
Open 11-5 daily, Memorial Day weekend through September. Open 12-5 weekends, October 1-17

Heroes of the Storm, 3 p.m. daily
In the late 1800s, the U.S. Life Saving Service crews started risking their lives in deadly weather to rescue passengers from shipwrecks. Participate in a demonstration rescue using U.S.L.S.S rescue techniques. A park ranger will roll out the beach cart, demonstrate the breeches buoy, and, on Thursdays, fire the Lyle Gun. *Daily, June 11-August 13*

Historic Beach Patrols
During the fall shipwreck season, patrol the beach with a surfman from the U.S. Life Saving Service. The worse the weather, the more realistic the patrol. Dress appropriately. *7:30-9:30 p.m., Saturdays, October 8 and October 15*



Bicycling

Bike on any established road that vehicles travel, but not on any park trails. Join a ranger for a ride or explore the following areas:

Port Oneida Rural Historic District: easy. These quiet country roads, a mix of gravel and pavement, wind between farms, barns, and wetlands. Ask for an area brochure at the visitor center.

Platte Plains: moderate. Close to the Platte River Campground. Use these primitive roads to experience nature away from the highway.

Pierce Stocking Scenic Drive: strenuous. For experienced bicyclists *only*. This 7.5 mile loop, with high summer traffic volumes and steep hills, provides overlooks of Lake Michigan and the dunes.



Winter Activities

Explore the colors of winter. Blue-gray ice sheets sculpt the shoreline and leaf-less oak, beech, and maple trees reveal overlooks shrouded the rest of the year. Winter creates a quiet and rarely witnessed landscape.

Ski the trails. Easy, intermediate, and advanced trails exist. Not groomed, but frequently tracked. Ask about a ski trail guide or see page 6.

Snowshoe anywhere. When following marked trails, please avoid trampling established ski tracks by snowshoeing alongside them, not on them.

Weekend snowshoe hikes. In January and February, rangers lead free introductory snowshoe hikes. Meet at the visitor center at 1:00 p.m. The park provides snowshoes free of charge. They are limited; call ahead for reservations 231-326-5134 x328.

Ice fish the inland lakes. State of Michigan licenses and regulations apply. Anglers are reminded to “dress warm, use the buddy system, always wear a life jacket, and use caution when traveling across any ice.”

Dune Center Store
Operated by Eastern National, a non-profit park partner, the Dune Center (near rest rooms at the Dune Climb) provides quality educational products and services for park visitors. Step into the air-conditioned store for nature guides, compasses, pins, T-shirts, hats, hiking sticks, and more. A free, sand accessible wheelchair may be borrowed. Call 231-334-2010 or visit (www.eastern-national.org).
Open June: Fri, Sat, Sun 12-5; July 1 -Labor Day: daily 12- 5. Located at the base of the Dune Climb.



Camping

Sleeping Bear Dunes National Lakeshore offers camping for everyone. The Platte River Campground is equipped with modern facilities, tent pads, picnic tables, fire rings, and parking pads at each site.

D. H. Day Campground is a popular, rustic campground with wooded camp-sites. Sites have tent pads, picnic tables, fire rings and parking areas.

Backcountry camping is available on the mainland at White Pine and Valley View Campgrounds, on South Manitou Island at Bay, Weather Station, and Popple Campgrounds (0.5, 1.5, and 3.5 miles from the dock), and on North Manitou Island (wilderness camping). A backcountry camping permit is required in addition to a park entrance pass. Obtain a pass and permit at the visitor center or campground offices.



	Reservations	Ranger station	Modern restrooms	Vault toilets	Tent sites	Backcountry sites	Group camping	RV sites	Dump station	Potable water	Showers	Accessible	Listening system	Swimming beach	Fees
	R	H	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	\$ per night per site
D. H. Day Campground		●			●	●			NE	●	●		●	●	\$12
D. H. Day Group Campground	●				●	●		●			●				\$30
Platte River Campground	●	●	●			●		●	E	●	●	\$	●	●	\$16 \$21 w/ electricity \$12 walk-in site \$40 group site
White Pine					●		●							●	\$5
Valley View					●		●								\$5
South Manitou Island	G		●	R	●		●	●			W			●	\$5 \$20 group site (20 people max)
North Manitou Island			●		●		●	●			W			●	\$5 \$10 group site (10 people max)
E Sites with electricity are available G Reservations only for group campsites S Shower tokens required (\$1 for two 3-minute tokens) R Restrooms only available in the village; open 24 hrs. W Potable water available in some campgrounds NE No electricity at sites; generator use permitted from 9 a.m. until 6 p.m. at sites 1-31															
Reservations To make reservations, visit http://www.recreation.gov , or the park website at www.nps.gov/slbe , or phone 1-877-444-6777. Reservations for Platte River campsites from Memorial Day until October 1st are accepted six months in advance. For group sites from May until October 1st, reservations are accepted one year in advance. A \$3 per night reservation fee is added by the reservation contractor. Reserve early!															
<i>Please Note:</i> Senior and Access Pass holders with ID pay half price for campsites at D. H. Day Campground and Platte River Campground. This includes campsites reserved through the National Recreational Reservation Service (NRRS). The discount does not apply for group campsites or electricity.															

Firewood Alert

New Policy to take full effect in 2012

Leave firewood at home
The Park is implementing a new firewood policy. This new plan will prohibit the movement of firewood into the campground areas and the Manitou Islands. It will include a ban on all deciduous and coniferous species and will take full effect in 2012, with a transition period beginning immediately.

save our forests from the fate that the Forest Education Zones predict. You can visit one of our five forest education zones to learn more about these threats and consequences.

If you brought firewood
If you brought firewood into the park, let a park ranger know. The ranger will tell you about voluntary actions you can take during our transition period to help protect our forests.

- **DO NOT** unload firewood
- **DO** place firewood directly from your vehicle into a fire (this prevents the spread of insects along the ground)
- **DO** burn all of your wood completely
- **DO** ask a park ranger about providing special bags to contain your wood for your return home.

DO NOT move firewood. Buy where you burn and burn where you buy.

If visitors wait to buy firewood inside the campgrounds or use collected allowable dead and down wood within the park, we can



Forest Pest and Disease Education Zones
Learn more about the threats to our Lakeshore by visiting our forest pest and disease education zones. Within these zones, all trees that are susceptible to currently encroaching pest insects and diseases have been marked with color coded flagging. A brochure, available at the visitor center and campgrounds, keys the flag color to the species of tree and its threatening pest and disease.

Walking through the zones, you can hone up on your tree identification, learn what threatens these trees, and pause to imagine what the forest would be like if every tagged tree were to die and disappear. The brochures tell what you can do to slow this loss while researchers work to find a way to combat the invaders.

Zones are located at the Platte River and D. H. Day Campgrounds, Pierce Stocking Scenic Drive, Inspiration Point, and the Empire Bluff hiking trail.

Sleeping Bear Heritage Trail

Sleeping Bear Dunes National Lakeshore has over 100 miles of hiking trails and exactly zero miles of bicycle trails, but not for long. The first leg of the new Sleeping Bear Heritage Trail (SBHT) is scheduled to break ground this summer.

The idea started with the Leelanau Scenic Heritage Route (LSHR) Committee. The state of Michigan designated the LSHR in 2002 to promote preservation of its scenic, historical, and recreational character. Now it is part of the National Lakeshore’s recently completed General Management Plan.

The SBHT will be a hard-surfaced, multi-use trail generally paralleling M-22 and M-109 for 27 miles through the National Lakeshore, connecting Good Harbor Beach at County Road 651 to the Leelanau County line south of Empire (with potential to extend south connecting with Platte River Campground and beyond).

It will provide a safe, non-motorized, multi-use transportation alternative connecting the National Lakeshore’s main visitor destinations with the communities of Glen Arbor and Empire. It will give walkers, runners, wheelchair users, bicyclists, cross-country skiers, and baby strollers a safe, enjoyable, fresh air and car-free way to access and explore the National Lakeshore and neighboring communities.



This first portion will run from the Dune Climb, into Glen Haven Historic Village, through the D.H. Day Campground, and on into Glen Arbor, giving all those kids riding circles around the campground a safe and fun place to go. We hope by next summer people who climb the dune, see Glen Haven, and then grab a burger and an ice cream, can do it while burning off calories instead of the gas in their tanks!

Come back next year and try it out! Learn more about the trail at www.nps.gov/slbe/parkmgmt/sbht2.htm



We're on Facebook!
Check us out at www.facebook.com/sbdnl
Become a fan of Sleeping Bear Dunes NL and keep up on the happenings in the park.



Dial and Discover Sleeping Bear Dunes

Discover more about the rich history and natural beauty of the Lakeshore any time from your own cell phone. It's easy. You use your own cell phone service and minutes.

- At each tour stop, dial **231-577-5555**
- Enter the tour stop number.

Enjoy tours of Glen Haven, Port Oneida, and Pierce Stocking Scenic Drive geology. Ask at the visitor center, campground offices, or entrance kiosks for a map and directions to the cell phone tour stops.

[Listen from anywhere and enjoy!](#)

Make a Difference Volunteer



In 2010, 1,120 Volunteers-In-Parks (VIPs) donated more than 42,000 hours at Sleeping Bear Dunes National Lakeshore. VIPs staffed visitor centers and museums, acted as campground hosts, monitored piping plover, maintained and renovated trails and historic buildings, removed invasive plants, and much more. You too can help care for your national parks. For more information, contact 231-326-5134.

Special Events

For more information on any special event, contact 231-362-5134 or visit the website: www.nps.gov/slbe.

Saturdays January - October	Saturdays at the Lakeshore Rangers offer weekly interpretive programs with topics and trails varying throughout the year. Come and join us!
June 2-3, 2011 Thursday, Friday 9:30 am to noon	Glen Haven Days School groups and visitors learn about lumbering, shipping, and the U.S. Life Saving Service through hands-on activities.
June 17, July 30, Aug. 13. Sept. 10, Oct. 21 TBA	Astronomy - Night Sky Delight, Star Party Enjoy the night sky through telescopes with park rangers and the Grand Traverse Astronomical Society. Check at visitor center for time and locations.
June 21, 2011	Fee Free Day - First Day of Summer
June 24 - 25, 2011 9:00 am - 5:00 pm	Michigan Barn Preservation Network Workshop Want an opportunity to learn new skills and help restore historic buildings. No skills necessary. Enough work for everybody.
July 10, 2011 7:00 p.m. to 9:00 p.m.	Dune Climb Concert A free open-air concert brought to you by Glen Arbor Art Association. For details, visit the GAAA website at www.glenarborart.org (click on Manitou Music Festival).
August 12-13, 2011 10 a.m. to 4 p.m.	Port Oneida Fair Port Oneida Rural Historic District. Arts, crafts, and rural life skills demonstrations along with live animals at a variety of farmsteads throughout the Port Oneida Rural Historic District.
September 24, 2011	National Public Lands Day Enjoy the park on this annual fee-free day and/or participate in a Take Pride in America/Coastal Cleanup event. Volunteers earn a pass for free entrance (to any national park) to be used at a later date.
September 23, & October 21, 2011	Artist-in-Residence A visiting artist will share his or her work at a public program. One at the end of September, the other at the end of October.
October 8 & 15, 2011 7:30 p.m. to 9:30 p.m.	Historic Beach Patrol Sleeping Bear Point Maritime Museum. Dress for the weather and walk the beach with a surfman from the U.S. Life Saving Service in search of a shipwreck after hearing about some local wrecks.
October 1-28, 2011 October 29- November 6, 2011	North Manitou Island Deer Hunt (Bow) North Manitou Island Deer Hunt (Firearm) Apply to park for permit.
January and February 1:00 p.m. to 3:00 p.m.	Snowshoe Hikes with a Ranger - Saturdays at the Lakeshore Meet at the Visitor Center at 1 pm for orientation and instructions. Snowshoes loaned free of charge. Reservations suggested. (Sunday tours may be available.)
November 11-13, 2011	Fee Free Weekend - Veteran's Day
April 14-22, 2012 TBA	National Park Week and Junior Ranger Day Events to be announced.

The Manitou Islands



South Manitou Island

No place offers a more complete sense of the National Lakeshore than South Manitou Island. Catch a passenger ferry for a day trip or camping excursion. The island preserves beaches, hiking trails, giant cedars, shipwrecks, and historic farms all for your exploration away from the rush of the mainland. Climb the lighthouse stairs for grand views across Lake Michigan. Take everything you need (food, water, camping equipment) as no services are available on the island. Supplies are available in Leland.

North Manitou Island

For a true wilderness experience, backpack on North Manitou Island. Visitors pass through the historic Coast Guard village before entering nearly 15,000 acres of undeveloped forests, fields, and beaches. Visits emphasize solitude and self-reliance. Plan well. No services are available. As you must stay overnight, take all your camping needs. Due to nesting piping plover, some beach areas may be closed May-August. There is no ferry service to North Manitou Island on Tuesdays and Thursdays.

South Manitou Island Ferry
9:15 a.m. Check in and board in Leland
10:00 a.m. Depart Leland
11:30 a.m. Arrive South Manitou Island
4:00 p.m. Depart South Manitou Island
5:30 p.m. Arrive Leland

North Manitou Island Ferry
9:15 a.m. Check in and board in Leland
10:00 a.m. Depart Leland
11:00 a.m. Arrive North Manitou Island
11:05 a.m. Depart North Manitou Island immediately after loading
12:00 p.m. Arrive Leland

Ferry service changes with the seasons. Always contact Manitou Island Transit for reservations and schedules at 231-256-9061. A national park entrance pass is required to visit the islands. A back-country permit is also required for campers. Passes and permits are available at the Leland Harbor office before ferry boarding and at the visitor center in Empire. Leland is 27 miles north of Empire on M-22.

<http://www.leelanau.com/manitou/manitou.html>

Become a Junior Ranger!



Explore the secrets of the Lakeshore as you seek answers for your Junior Ranger book (free at park stores and campground offices). Children of all ages enjoy these fun and challenging activities. The book—new in 2010—lists the steps you need to finish to earn a Junior Ranger badge and/or patch. In order to earn your Junior Ranger status, return to the visitor center or a campground office to review your answers with a ranger and take an official oath.

Explore! Learn! Protect!